

Title (en)
A POLYPHENYLENE ETHER MEMBRANE USED FOR GAS SEPARATION

Publication
EP 0160435 A3 19880713 (EN)

Application
EP 85302525 A 19850410

Priority
JP 7210784 A 19840411

Abstract (en)
[origin: EP0160435A2] A membrane for gas separation is made of a silylated polyphenylene ether containing a unit having in at least a part of its repeating unit an organosilane or siloxane group represented by the formula: wherein R₁, R₂, R₃ and R₄ each represent hydrogen or a group of the formula -Si(R₅)(R₆)(R₇), wherein R₅, R₆ and R₇ each is alkyl, 1 and n each = 0, 1, 2 or 3; and m = 1, 2 or 3; provided that R₁, R₂, R₃ and R₄ are not all hydrogen. The membrane may be supported on a porous thin support. The ether is provided by reacting a polyphenylene ether with an alkali metal agent and then with a monohalogenated silane. The membrane is useful in separating gases such as to produce oxygen-rich air.

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Citation (search report)
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